

Docket No. 270413US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Ulrike MAIER, et al.

SERIAL NO: 10/532,205

GAU:

FILED: April 22, 2005

EXAMINER:

FOR: METHOD FOR THE PURIFICATION OF LIPONIC ACID

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).


CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618

Corwin P. Umbach, Ph.D.

Registration No. 40,211

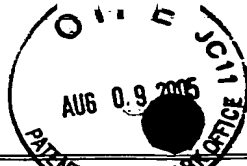
Surinder Sachar

Registration No. 34,423

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 05/03)

Form PTO 1449
(Modified)DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
270413US0PCTSERIAL NO.
10/532,205

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Ulrike MAIER, et al.

FILING DATE

April 22, 2005

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AN	100 44 000	03/21/02	DE (equivalent of CA 2417842)		NO
	AO	35704-60	05/18/60	JP (English abstract only)		NO
	AP	0 543 088	05/26/93	EP		NO
	AQ	0 487 986	06/03/92	EP (equivalent of US 5530143)		NO
	AR	02/044163	06/06/02	WO (with English abstract & equivalent of CA 2430073 -English abstract only)		NO
	AS	100 22 856	11/15/01	DE (equivalent of US 2003/0148991)		NO
	AT	100 27 875	12/13/01	DE (equivalent of US 2003/0180337)		NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AU	NAKATA. "Biologically active lipoic acid-like substances in urine. II. Purification and chemical properties", Chemical Abstracts, vol. 71, no. 25, page 24, 119752c 1969				
	AV	BRINGMANN et al. "A Short and Productive Synthesis of (R)-alpha-Lipoic Acid", Z. Naturforsch., vol. 54b, pages 655-661 1999				
	AW	ADGER et al. "The Synthesis of (R)-(+)-Lipoic Acid using a Monooxygenase-Catalysed Biotransformation as the Key Step", Bioorganic & Medicinal Chemistry, vol. 5, pages 253-261 1997				
	AX	YADAV et al. "Synthesis of alpha-lipoic acid- A highly useful biologically active compound", Journal of Scientific & Industrial Research, vol. 49, pages 400-409 1990				
	AY	GOPALAN et al. "Stereochemical Control of Yeast Reductions: Synthesis of R-(+)-alpha-Lipoic Acid", Tetrahedron Letters, vol. 30, pages 5705-5708 1989				
	AZ	BROOKES et al. "Proof that the Absolute Configuration of Natural alpha-Lipoic Acid is R by the Synthesis of its Enantiomer [(S)-(-)-alpha-Lipoic acid] from (S)-Malic Acid", J. Chem. Soc., Chem. Commun., pages 1051-1053 1983				<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



U.S. PCT Application Serial No.: 10/532,205
Docket No.: 270413US0PCT

STATEMENT OF RELEVANCY

- 1) References AN, AU have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.
- 3) References AO-AT, AV-AZ are discussed in the specification. A copy of these references is being submitted here with.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.